BRUHAT BANGALORE MAHANAGARA PALIKE

MEASUREMENT SHEET

FIRST AND FINAL BILL

Name of work:	Improvements to Roads and Drains at Deshabanndunagara and Surrounding areas in Ward No. 09, (Vidyaranyapura).
Estimated Cost :	Rs. 47.00 Lakhs
Job Code:	009-22-000010
Head of Account :	P-2178 Work Sanctioned by Dy. Mayor
Name of Agency:	Sri. Nagoor Lakanadha Reddy, No. Flat No. 102, 1st Floor, No. 02, MSNR Enclave, 2nd Cross, Manorayana Palya, RT Nagar Post, Bangalore - 32.
Work order No:	BBMP/EE/BTP/WO/54/2022-23 Dated: 29-06-2022.

Measurements Recarded on : 25/07/2022

Sl No	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
1	**Removing and refixing** stone slabs of drains and pointing in CM (1:3)								
		Sqm							
			Not Exeucted						
2	Earth work excavatioh by manual means for drains,canals, waste weir, draft, approach channels, key trenches, foundation of bridges and such simillar works in all kinds of soils, as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter, excavated surface leveled and sides neatly dressed disposing off the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools & other appurtenaces required to complete the work.								
		Cum							
	Qty as per Premeasurement vide E-MB Page No. 01 to 02 is =						**517.80**		
	Qty upto 125%						**363.83**	**214.83**	**78161.00**
	Above 125%						**153.98**	**214.58**	**33040.00**
3	Providing granite slabs of selected quality roughly dressed having a size of 7.5cms thick and fixed in cement mortar (1:6) including fixing curing ete., complete.								
	Covering Slab	**Sqm**							
	ChikkaVenkatappa Layout								
	Main Road E/S								
			1	5.30		0.90	4.77		
			1	18.20		0.90	16.38		
			1	15.80		0.90	14.22		
	From 1st Cross to 3rd Cross S/S								
			1	19.70		0.90	17.73		
			1	18.30		0.90	16.47		
	From 1st Cross to 2nd Cross N/S								

Sl No	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
			1	4.50		0.90	4.05		
			1	11.40		0.90	10.26		
	1st Cross Road W/S								
			1	15.00		0.90	13.50		
			1	10.90		0.90	9.81		
			1	15.00		0.90	13.50		
			1	15.00		0.90	13.50		
			1	7.80		0.90	7.02		
	1st Cross Road E/S								
			1	11.10		0.90	9.99		
			1	15.00		0.90	13.50		
			1	15.00		0.90	13.50		
			1	15.00		0.90	13.50		
			1	13.80		0.90	12.42		
	2nd Cross Road W/S								
			1	7.30		0.90	6.57		
			1	6.20		0.90	5.58		
			1	6.80		0.90	6.12		
			1	15.00		0.90	13.50		
			1	15.00		0.90	13.50		
			1	10.00		0.90	9.00		
	Total						**258.39**		
	Qty upto 125%						**155.93**	**779.10**	**121481.00**
	Above 125%						**102.47**	**778.21**	**79739.00**

Assistant Engineer
Ward No. 09

Assistant Executive Engineer
Vidyaranyapura Sub Division

Assistant Executive Engineer
Vidyaranyapura Sub Division
B.B.M.P, Bangalore - 97

Sl No	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
	Measurements Recarded on :	28/07/2022							
4	Providing and laying in position plain cement concrete Mix 1:3:6 (M10) for levelling course for all works in foundation. Using 40 mm nominal size graded crushed coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications.								
		Cum							
	Qty as per Premeasurement vide E-MB Page No. 03 to 04 is =						77.23		
	Qty upto 125%						**70.91**	**6643.56**	**471111.00**
	Above 125%						**6.32**	**6635.97**	**41923.00**
5	Providing and laying in position Reinforced cement concrete for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necesary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork to be paid separately)								
	Drain	**Cum**							
	Bottom Raft								
	ChikkaVenkatappa Layout								
	Main Road E/S								
			1	15.00	0.90	0.15	2.03		
			1	15.00	0.90	0.15	2.03		
			1	15.00	0.90	0.15	2.03		
			1	15.00	0.90	0.15	2.03		
			1	8.50	0.90	0.15	1.15		
			1	6.00	0.90	0.15	0.81		
			1	15.80	0.90	0.15	2.13		
	From 1st Cross to 3rd Cross								
			1	18.30	0.90	0.15	2.47		
			1	9.10	0.90	0.15	1.23		
			1	19.70	0.90	0.15	2.66		
			1	17.30	0.90	0.15	2.34		
	From 1st Cross to 2nd Cross								
			1	15.00	0.90	0.15	2.03		
			1	9.80	0.90	0.15	1.32		
	1st Cross Road W/S								
			1	15.00	0.90	0.15	2.03		

Executive Engineer
Byatarayanapura Division
BBMP, Bangalore-92

Executive Engineer
Byatarayanapura Division
BBMP, Bangalore-92

Sl No	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
			1	15.00	0.90	0.15	2.03		
			1	15.00	0.90	0.15	2.03		
			1	15.00	0.90	0.15	2.03		
			1	15.00	0.90	0.15	2.03		
			1	15.00	0.90	0.15	2.03		
			1	4.00	0.90	0.15	0.54		
	1st Cross Road E/S								
			1	15.00	0.90	0.15	2.03		
			1	15.00	0.90	0.15	2.03		
			1	15.00	0.90	0.15	2.03		
			1	15.00	0.90	0.15	2.03		
			1	15.00	0.90	0.15	2.03		
			1	15.00	0.90	0.15	2.03		
			1	3.10	0.90	0.15	0.42		
	2nd Cross Road W/S								
			1	15.00	0.90	0.15	2.03		
			1	15.00	0.90	0.15	2.03		
			1	15.00	0.90	0.15	2.03		
			1	15.00	0.90	0.15	2.03		
			1	15.00	0.90	0.15	2.03		
			1	13.20	0.90	0.15	1.78		
	Side Wall								
	ChikkaVenkatappa Layout								
	Main Road E/S								
			2	15.00	0.15	0.55	2.48		
			2	15.00	0.15	0.55	2.48		
			2	15.00	0.15	0.55	2.48		
			2	15.00	0.15	0.55	2.48		
			2	8.50	0.15	0.55	1.40		
			2	6.00	0.15	0.55	0.99		
			2	15.80	0.15	0.55	2.61		
	From 1st Cross to 3rd Cross S/S								
			2	18.30	0.15	0.55	3.02		
			2	9.10	0.15	0.55	1.50		
			2	19.70	0.15	0.55	3.25		
			2	17.30	0.15	0.60	3.11		
	From 1st Cross to 2nd Cross N/S								
			2	15.00	0.15	0.55	2.48		

Executive Engineer
Byatarayanapura Division
BBMP, Bangalore-92

Executive Engineer
Byatarayanapura

Sl No	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
			2	9.80	0.15	0.60	1.76		
	1st Cross Road W/S								
			2	15.00	0.15	0.55	2.48		
			2	15.00	0.15	0.55	2.48		
			2	15.00	0.15	0.60	2.70		
			2	15.00	0.15	0.60	2.70		
			2	15.00	0.15	0.60	2.70		
			2	15.00	0.15	0.60	2.70		
			2	4.00	0.15	0.60	0.72		
	1st Cross Road E/S								
			2	15.00	0.15	0.55	2.48		
			2	15.00	0.15	0.55	2.48		
			2	15.00	0.15	0.55	2.48		
			2	15.00	0.15	0.60	2.70		
			2	15.00	0.15	0.60	2.70		
			2	15.00	0.15	0.60	2.70		
			2	3.10	0.15	0.60	0.56		
	2nd Cross Road W/S								
			2	15.00	0.15	0.55	2.48		
			2	15.00	0.15	0.55	2.48		
			2	15.00	0.15	0.60	2.70		
			2	15.00	0.15	0.60	2.70		
			2	15.00	0.15	0.60	2.70		
			2	13.20	0.15	0.60	2.38		
					Sub Total		**139.40**		
	Culvert								
	Bottom Raft								
	Chikkavenkatappa Layout Main Road near 1st Cross		1	7.30	1.80	0.20	2.63		
	Side Wall								
	Chikkavenkatappa Layout Main Road near 1st Cross		2	7.30	0.25	0.60	2.19		
					Sub Total		**4.82**		
	Total						**144.22**		
	Qty Limites to						**143.98**		
	Qty upto 125%						**139.61**	**7586.96**	**1059234.00**
	Above 125%						**4.37**	**7578.29**	**33117.00**

Executive Engineer
Byatarayanapura Division
BBMP, Bangalore-92

28/07/22

Assistant Engineer
Ward No. 09

N. Lakanahalli

Assistant Executive Engineer
Vidyaranyapura Sub Division

Assistant Executive Engineer
Vidyaranyapura Sub Division
B.B.M.P, Bangalore - 97

Sl No	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
	Measurements Recarded on :	30/07/2022							
6	Supplying, Fitting and Placing un-coated T.M.T bar Reinforcement in sub-structure complete as per Drawing and Technical Specifications.								
		Tonne							
	Qty as per Premeasurement vide E-MB Page No. 05 is =						**7.55**	**119345.00**	**901055.00**
7	Providing and Fixing pre cast covering **Slab** made out of CC 1:2:4 with **100mm thick** and Finishing cutting, including form work, curing, including cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc., copmplete.								
	New Drain Cover Slab	**Sqm**							
	ChikkaVenkatappa Layout								
	Main Road E/S								
			1	5.60	0.75		4.20		
			1	8.80	0.75		6.60		
			1	15.00	0.75		11.25		
			1	15.60	0.75		11.70		
			1	6.00	0.75		4.50		
	From 1st Cross to 3rd Cross S/S								
			1	17.30	0.75		12.98		
			1	9.10	0.75		6.83		
	From 1st Cross to 2nd Cross N/S								
			1	11.30	0.75		8.48		
			1	1.20	0.75		0.90		
			1	1.20	0.75		0.90		
	1st Cross Road W/S								
			1	15.00	0.75		11.25		
			1	11.30	0.75		8.48		
			1	4.00	0.75		3.00		
			1	1.80	0.75		1.35		
	1st Cross Road E/S								
			1	15.00	0.75		11.25		
			1	7.00	0.75		5.25		
			1	1.20	0.75		0.90		
	2nd Cross Road W/S								
			1	4.30	0.75		3.23		
			1	1.80	0.75		1.35		
			1	3.70	0.75		2.78		
			1	1.80	0.75		1.35		
			1	16.30	0.75		12.23		
	2nd Cross Deshabanudnagara								
			1	15.00	0.90		13.50		
			1	15.00	0.90		13.50		

Executive Engineer
Byatarayanapura Division
BBMP, Bangalore-92

Sl No.	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
			1	15.00	0.90		13.50		
			1	15.00	0.90		13.50		
			1	15.00	0.90		13.50		
			1	15.00	0.90		13.50		
			1	15.10	0.90		13.59		
	3rd Cross Deshabanduangara								
			1	15.00	1.20		18.00		
			1	15.00	1.20		18.00		
	1st Main Road Deshabanduanagara								
			1	15.00	0.90		13.50		
			1	15.00	0.90		13.50		
			1	15.00	0.90		13.50		
			1	15.00	0.90		13.50		
			1	15.00	0.90		13.50		
			1	15.00	0.90		13.50		
			1	10.30	0.90		9.27		
	5th Main								
			1	15.00	0.90		13.50		
			1	15.00	0.90		13.50		
			1	15.00	0.90		13.50		
			1	10.00	0.90		9.00		
							401.09		
							400.73	**2453.85**	**983331.00**

Executive Engineer
Byatarayanapura Division
BBMP, Bangalore-92

Assistant Engineer
Ward No. 09

30/07/22

N. Lokanathareddy

Assistant Executive Engineer
Vidyaranyapura Sub Division

Assistant Executive Engineer
Vidyaranyapura Sub Division
B.B.M.P, Bangalore - 97

Sl No	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
	Measurements Recarded on :								
8	Providing and Fixing pre cast covering Slab 250mm thick made out of CC 1:2:4 and jelly 20mm Down size with steel reinforcement including form work, curing, including cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc., complete.As per Engineer incharge								
	Culvert Cover Slab	**Sqm**							
	Chikkavenkatappa Layout Main Road near 1st Cross	Sqm	1	7.30	1.80		13.14		
	Total						**13.14**	**5688.90**	**74752.00**

Assistant Engineer
Ward No. 09

N. Lalana Kalleshy

Assistant Executive Engineer
Vidyaranyapura Sub Division

Sl No	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
	Measurements Recarded on :								
9	Providing and laying in position Reinforced cement concrete for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necesary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. 1;2;4(The cost of steel reinforcement & formwork to be paid separately)								
		Cum							
	ChikkaVenkatappa Layout								
	Main Road E/S								
			1	15.00	0.30	0.10	0.45		
			1	15.00	0.30	0.10	0.45		
			1	15.00	0.30	0.10	0.45		
			1	15.00	0.30	0.10	0.45		
			1	8.50	0.30	0.10	0.26		
			1	6.00	0.30	0.10	0.18		
			1	15.80	0.30	0.10	0.47		
	From 1st Cross to 3rd Cross S/S								
			1	18.30	0.30	0.10	0.55		
			1	9.10	0.30	0.10	0.27		
			1	19.70	0.30	0.10	0.59		
			1	17.30	0.30	0.10	0.52		
	From 1st Cross to 2nd Cross N/S								
			1	15.00	0.30	0.10	0.45		
			1	9.80	0.30	0.10	0.29		
	1st Cross Road W/S								
			1	15.00	0.30	0.10	0.45		
			1	15.00	0.30	0.10	0.45		
			1	15.00	0.30	0.10	0.45		
			1	15.00	0.30	0.10	0.45		
			1	15.00	0.30	0.10	0.45		
			1	15.00	0.30	0.10	0.45		
			1	4.00	0.30	0.10	0.12		
	1st Cross Road E/S								
			1	15.00	0.30	0.10	0.45		
			1	15.00	0.30	0.10	0.45		
			1	15.00	0.30	0.10	0.45		
			1	15.00	0.30	0.10	0.45		
			1	15.00	0.30	0.10	0.45		
			1	15.00	0.30	0.10	0.45		
			1	3.10	0.30	0.10	0.09		
	2nd Cross Road W/S								

Sl No	Description of work	Unit	Mesurement				Qty	Rate	Amount
			No.	L	B	D			
			1	15.00	0.30	0.10	0.45		
			1	15.00	0.30	0.10	0.45		
			1	15.00	0.30	0.10	0.45		
			1	15.00	0.30	0.10	0.45		
			1	15.00	0.30	0.10	0.45		
			1	13.20	0.30	0.10	0.40		
							13.64	**7040.88**	**96066.00**

Assistant Engineer
Ward No. 09

Assistant Executive Engineer
Vidyaranyapura Sub Division

Sl No	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
	Measurements Recarded on :								
10	Providing and constructing load bearing wall with Solid Concrete blocks of size 400x150x200mm having block density more than 1800kg/m3 and minimum compressive strength of 4.00 N/mm2 conforming to IS 2185 (Part - I) - 2005 and constructed with CM 1:4 as per IS 2572:2005 including cost of all materials, labour, scaffolding and curing, usage charges of machinery etc complete as per specifications.								
		Sqm							
			Not Exeucted						
11	**Loading and Unloading of Stone Boulder**/Stone aggregates/ Sand/Kankar/Moorum. (Tipper 14 m3)								
	Qty Vide from Item No - 2	**Cum**					517.80		
	Total						**517.80**	**81.40**	**42149.00**
12	**Cost of Haulage** Excluding Loading and Unloading Taking output 18 t load and lead 10 km = 180 t.km								
	Qty from Item No -11	**t.Km**		517.80	1.28		662.78		
	Total						**662.78**	**115.50**	**76552.00**
								Sub Total	**4091711.00**
								GST @ 18%	**736508.00**
								Grand Total	**4828219.00**

Assistant Engineer
Ward No. 09

Assistant Executive Engineer
Vidyaranyapura Sub Division

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B.B.M.P, Bangalore - 97